# Epitaxial Growth of Several F.C.C. Metals on KCl, KBr and KI Crystals Cleaved in Vacuum

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**Abstract**

The epitaxial growth of Au, Ag, Cu, Pd, Ni and Al on KCl, KBr and KI crystals cleaved in ordinary high vacuum ($10^{-4}$–$10^{-5}$ mmHg) has been studied by transmission electron diffraction, the effect of exchange of halogen ion in substrate crystals on the relation of the preferred orientation to the substrate temperature being especially watched. The exchange of halogen ion has no effect on the preferred orientation except the case with Pd on KI but has some effects on the epitaxial temperature, *i.e.* the latter shows a change characteristic of each metal with ionic radius of substrate halogen ion.

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